

VOLUME 8 GENERAL TECHNICAL FUNCTIONS

CHAPTER 5 GENERAL AIRWORTHINESS AND AVIONICS TECHNICAL FUNCTIONS

Section 11 Introduction to Avionics

8-536 GENERAL. Avionics inspectors have the primary responsibility for airworthiness program functions that involve avionics equipment and systems. The duties listed below are functions that require the specific expertise and experience related to the avionics specialty.

NOTE: The term “ATA code” in this order refers to the Air Transport Association of America (ATA) codes, which are standardized for each aircraft system. ATA changed its name to Airlines for America (A4A) in 2011, but the acronym “ATA” is still used for coded aircraft systems. The acronyms “ATA” and “A4A” are interchangeable.

A. Primary Avionics Duties. The primary avionics duties, responsibilities, and functions, based on the applicable ATA chapter coding system, include the evaluation, monitoring, and inspection of the following equipment and systems:

- Standard wiring practices;
- Electrical wiring interconnection system (EWIS);
- Autopilots;
- Communications;
- Electrical power;
- Indicating and recording systems;
- Lights;
- Navigation (NAV);
- Engine indicating;
- Cabin systems; and
- Information systems.

B. Secondary Avionics Duties. The secondary avionics duties, responsibilities, and functions, based on the applicable ATA chapter coding system, include the evaluation, monitoring, and inspection of the following equipment and systems:

- Equipment and furnishings;
- Fire protection/detection;
- Flight control logic system-indicating;
- Fuel system-indicating and fuel tank safety (FTS);
- Ice and rain protection of pitot-static systems, antennas, radomes, and detection systems;
- Landing gear: position and warning systems, antiskid electronics;
- Airborne aux power indicating;
- Door warnings;

- Rotor indicating systems;
- Powerplant electrical harness;
- Engine fuel and control indicating;
- Ignition electrical power supply;
- Air indicating; and
- Oil indicating.

RESERVED. Paragraphs 8-537 through 8-540.